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| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/617,449 | FELDMAN ET AL. | |
| | Examiner | Art Unit | |
| | Tuyen Q Tra | 2873 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/17/2004.
2. ☒ The allowed claim(s) is/are 1-5 and 7-10.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 0904.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date <u>0903</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
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DETAILED ACTION

Reason For Allowance

1. Claims 1-5 and 7-10 are allowed.
2. Following is an examiner's statement of reasons for allowance:

The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claims, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims 1 and 8, which include (claim 1) a series of periodic RF pulses input to the RF input portion is operative to generate a sequence of traveling lenses concurrently existing in the active region, the traveling lenses being operative to receive the light input at the light input portion and generate spot beams output from the light output portion; (claim 8) a method of operating an acousto-optic device having an active region and adapted to receive a source of light at a light input portion and a source of RF pulses at an RF input portion for generating a plurality of traveling lenses that provide a plurality of concurrent spots from a light output portion comprising step for applying the light to the propagating acoustic waves, the waves forming traveling lenses and concurrently existing in the active region, each the traveling lens being operative to focus and direct the light.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Gross et al. (U.S. 6,756,563 B2) discloses a system and method for forming holes in substrates containing glass in Figure 2 comprising of crystal medium (134), an RF input portion (132) for receiving an RF input, the input portion being disposed at one end of a direction of acoustic wave propagation; a light input portion for receiving light from the source of light (120), the light input portion (122) being disposed transverse to the direction of acoustic wave propagation (138); and light output portion; however, Gross et al. does not teach or suggest a series of periodic RF pulses input to the RF input portion is operative to generate a sequence of traveling lenses concurrently existing in the active region, the traveling lenses being operative to receive the light input at the light input portion and generate spot beams output from the light output portion.

b) Keefer et al. (US. Patent 5,641,954 A) disclose a programmable delay line using laser diode taps in Figure 1 comprising of crystal medium (AO cell 7), an RF input portion (11) for receiving an RF input (9), the input portion (11) being disposed at one end of a direction of acoustic wave propagation; a light input portion for receiving light from the source of light (100), the light input portion (L100) being disposed transverse to the direction of acoustic wave propagation (138); and light output portion; however, Gross et al. does not teach or suggest a series of periodic RF pulses input to the RF input portion is operative to generate a sequence of traveling lenses concurrently existing in the active region, the traveling lenses being operative to

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receive the light input at the light input portion and generate spot beams output from the light output portion.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyen Tra whose telephone number is (571) 272-2343. The examiner can normally be reached on Monday to Thursday from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps, can be reached on (571) 272 - 2328. The fax number for this Group is (703) 872-9306.

tt

September 17, 2004


Hung Xuan Do
Primary Examiner